

Abstract of the Disclosure

A perceptual model based on

5 psychoacoustic auditory experiments is
based on the (time domain) roughness of an
input signal envelope in particular cochlea
filter bands rather than the *noise-like* vs.
tonal nature of the input signal. In
10 illustrative embodiments, frequency domain
techniques are used to develop envelope and
envelope roughness measures, and such
roughness measures are then used to derive
Noise Masking Ratio (NMR) values for
achieving a high level of noise masking in
15 coder embodiments. Coder embodiments
based on present inventive teachings are
compatible with well-known AAC coding
standards.

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